Please type a plur sign (+Finside this box → +	Pa
NOV 2 9 2002 Substitute for form 1449A/PT(5)	Application
INFORMATION DISCLOSURE	Filing Date

of

(use as many sheets as necessary)

1

Sheet

COMPLETE IF KNOWN			
Application Number	09/878,948	Conf. No. 6459	
Filing Date	June 11, 2001		
First Named Inventor	Kenneth H. Abbott		
Group Art Unit	2173		
Examiner Name	Unknown T.	Hailu	
Attorney Docket No.	294438022US2		

INITIALS'	NUMBER Kind 6 (if km Patent Application No. 09/724,777	own)	Document	Where Relevant Passages or Relevant Figures Appear
TH		I I 111 1		
	1	Abbott et al.	11/28/00	
	Patent Application No. 09/724,799	Abbott et al.	11/28/00	
	Patent Application No. 09/724,892	Abbott et al.	11/28/00	ECEIVED
	Patent Application No. 09/724,893	Abbott et al.	11/28/00	ECEIVED
	Patent Application No. 09/724,894	Abbott et al.	11/28/00	DEC 0 2 2002
	Patent Application No. 09/724,902	Abbott et al.	11/28/00	nnology Center 210
	Patent Application No. 09/724,932	Abbott et al.	11/28/00	
	* Patent Application No. 09/879,339	Abbott et al.	6/11/01	
	4,916,441	Gombrich	4/10/90	,
	5,032,083	Friedman	7/16/91	
	5,201,034	Matsuura et al.	4/6/93	
	5,208,449	Eastman et al.	5/4/93	
	5,214,757	Mauney et al.	5/25/93	
	5,227,614	Danielson et al.	7/13/93	
	5,335,276	Thompson et al.	8/2/94	
	5,416,730	Lookofsky	5/16/95	
	5,470,233	Fruchterman et al.	11/28/95	
	5,493,692	Theimer et al.	2/20/96	
\longrightarrow	5,544,321	Theimer et al.	8/6/96	
\longrightarrow	5,555,376	Theimer et al.	9/10/96	
	5,559,520	Barzegar et al.	9/24/96	
	5,568,645	Morris et al.	10/22/96	
	5,601,435	Quy	2/11/97	
	5,603,054	Theimer et al.	2/11/97	
\longrightarrow	5,611,050	Theimer et al.	3/11/97	····
-	5,642,303	Small et al.	6/24/97	
	5,646,629	Loomis et al.	7/8/97	
\longrightarrow	5,719,744	Jenkins et al.	2/17/98	
	5,726,660	Purdy et al.	3/10/98	
\longrightarrow	5,751,260	Nappi et al.	5/12/98	
	5,781,913 5,790,974	Felsenstein et al. Tognazzini	7/14/98 8/4/98	

EXAMINER		DATE CONSIDERED	· • • • • • • • • • • • • • • • • • • •			
Tas	desse Hanly	2-24-04				
* EXAMINER:	Initial if reference considered, whether or not criteria	is in conformance with MPEP 609.	Draw line through	citation	if not	in
	conformance and not considered. Include copy of this form	with next communication to applicant(s).				

Substitut	9 20 60r form 1449A/PTO	हिंद है		
	INFORMA	TIĞN I		
	VRANCE		s as neces.	

Please type a plus sign (+) inside this box → +

COMPLETE IF KNOWN			
Application Number	09/878,948	Conf. No. 6459	
Filing Date	June 11, 2001		
First Named Inventor	Kenneth H. Abbott	<u> </u>	
Group Art Unit	2173		
Examiner Name	Unknown T.	Haily	
Attomay Dookst No.	2044290221192		

Sheet 2 of 4

4 Attorney Docket No. 294438022US2

U.S. PATENT	DOCUMENTS
-------------	-----------

EXAMINER INITIALS	U.S. Patent Document NUMBER Kind Coo (if know		Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TH	5,798,733	Ethridge	8/25/98	
	5,812,865	Theimer et al.	9/22/98	<u> </u>
	5,873,070	Bunte et al.	2/16/99	
	5,878,274	Kono et al.	3/2/99	
	5,902,347	Backman et al.	5/11/99	
	5,910,799	Carpenter et al.	6/8/99	CEIVED
İ	5,938,721	Dussell et al.	8/17/99	
	5,948,041	Abo et al.	9/7/99	DEC 0 2 2002
	5,959,611	Smailagic et al.	9/28/99	
	5,991,687	Hale et al.	11/23/99 Tan	nology Center 210
	6,014,638	Burge et al.	1/11/00	IIIOIOS) OSITICAL
	6,047,301	Bjorklund et al.	4/4/00	***
	6,064,943	Clark, Jr. et al.	5/16/00	
	6,108,197	Janik	8/22/00	
1/	6,127,990	Zwem	8/3/00	

		FO	REIGN PATENT DOCUMEN	NTS		
EXAMINER INITIALS	Office	Foreign Patent Document Kind Code Number (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
TH	EPO	EP 0823 813A2	Kopin Corporation	2/11/98		
1	JPO	05260188	Matsushita Electric Ind. Co. Ltd.	10/8/93	Abstract Only	
	JPO	09091112	Toshiba Corp.	4/4/97	Abstract Only	
	PCT	WO 90/08361	The Scott Fetzer Company	7/26/90		
	PCT	WO 97/03434	Virtual I/O, Inc.	1/30/97		

	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
EXAMINER INITIALS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.		Т
TH	" 'Affective Understanding:' Modeling and Responding to User Affect," http://www.media.mit.edu/affect/AC_research/understanding.html, pp. 1-3 [Accessed 2 Oct 1998].	
	"Alps GlidePoint," http://www.alps.com/p17.html, p. 1 [Accessed 2 Oct 1998].	
	"GyroPoint Technology," http://www.gyration.com/html/gyropoint.html, pp. 1-3 [Accessed 2 Oct 1998].	
	"Haptics," http://www.ai.mit.edu/projects/handarm-haptics/haptics.html, pp. 1-2 [Accessed 2 Oct 1998].	
	"Research Areas in Affective Computing," http://www.media.mit.edu/affect/, p. 1 [Accessed 2 Oct 1998]	

EXAMINER		DATE CONSIDERED
	Tadem Han	2-24-04
* EXAMINER:	Initial if reference considered, whether or not criteria	is in conformance with MPEP 609. Draw line through citation if not in with next communication to applicant(s)

Please type a plus sign (1) has the this box → +

NOV 2 9 2002

Substitute for form 1449A/PTO INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

COMPLETE IF KNOWN

Application Number 09/878,948 Conf. No. 6459

Filing Date June 11, 2001 RECEIVED

First Named Inventor Kenneth H. Abbott

Group Art Unit 2173 DEC 0 2 2002

Examiner Name Unknown T. Hari (4

Sheet 3 of 4 Attorney Docket No. 294438022US2 Technology Center 2100

~	Timoling Decret 16: 254436022032 TACHINOLOGY CHINGS	Щ
	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	4-4-4
EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.	7
TA	"Research on Affective Pattern Recognition and Modeling," http://www.media.mit.edu/affect/AC_research/recognizing.html, pp. 1-4 [Accessed 2 Oct 1998].	
	"Research on Sensing Human Affect," http://www.media.mit.edu/affect/AC_research/sensing.html, pp. 1-5 [Accessed 2 Oct 1998].	
	"Smart Rooms," http://vismod.www.media.mit.edu/vismod/demos/smartroom/, pp. 1-3 [Accessed 2 Oct 1998].	Ī
	"SmartDesk Home Page," http://vismod.www.media.mit.edu/vismod/demos/smartdesk/, pp. 1-4 [Accessed 2 Oct 1998].	Γ
	"The MIT Wearable Computing Web Page," http://wearables.www.media.mit.edu/projects/wearables/, pp. 1-3 [Accessed 2 Oct 1998].	Γ
	"Wearable Computer Systems for Affective Computing," http://www.media.mit.edu/affect/AC_research/wearables.html, pp. 1-5 [Accessed 2 Oct 1998].	
	Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996	L
	Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," IEEE, pp. 57-64, January 1999.	L
	Bowskill, J. et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communication," 3 rd International Symposium on Wearable Computers," San Francisco, California, October 18-19 1999	
	Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Finger et al., "Rapid Design and Manufacture of Wearable Computers," Communication of the ACM, Vol. 39, No. 2, February 1996, pp. 63-68	
	Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).	
	Kirsch, Dana, "The Sentic Mouse: A tool for measuring emotional valence," http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html, pp. 1-2 [Accessed 2 Oct 1998].	
	Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998	
	Kortuem, Gerd, "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 rd International Symposium on Wearable Computers," San Francisco, California, October 18-19, 1999	
	Lashkari, Yezdi et al., "Collaborative Interface Agents," Proccedings of AAAI '94 Conference, Seattle, Washington, August 1994	L
	Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	Ĺ
	Leonhardi, Alexander et al., "Virtual Information Towers – A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment, 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," Proceedings of the Annual Artificial Intelligence Systems in Government Conference, IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.	
	Maes, Pattie, "Agents That Reduce Work and Information Overload," Communications of the ACM, Vol. 37, No. 7, July 1994	L
	Mann, Steve, "Smart Clothing': Wearable Multimedia Computing and 'Personal Imaging' to Restore the Technological Balance Between People and Their Environments", ACM Multimedia, November 1996, pp. 163-174	
	Metz, Cade, "MIT: Wearable PCs, Electronic lnk, and Smart Rooms," PC Magazine, pp. 192-193, June 1998.	
	Oakes, Chris, "The Truman Show Realized?," http://www.wired.com/news/news/technology/story/15745.html, pp. 1-4 [Accessed 21 Oct 1998].	
	Picard, R.W. and Healey, J., "Affective Wearables," Personal Technologies vol. 1: 231-240, MIT Media Laboratory (1997).	
	Rekimoto et al., "The World through the Computer: Computer Augmented Interaction with Real World Environments, " ACM, November 1995, pp. 29-36	
	Rhodes, Bradley, "WIMP Interface Considered Fatal," http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html, pp. 1-3 [Accessed 2 Oct 1998].	
$\sqrt{}$	Rhodes, Bradley, J. "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the First International Symposium on Wearable Computers (ISWC '97), Cambridge, MA, October 13-14, 1997	

EXAMINER		DATE CONSIDERED	
	Tadesse Hail	2-24-04	
* EXAMINER:	Initial if reference considered, whether or not criteria conformance and not considered. Include copy of this form	is in conformance with MPEP 609. Draw line through citation with next communication to applicant(c)	if not in

Substitute for form 1449A/AOO

INFORMATION DISCOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

COMPLETE IF KNOWN					
Application Number	09/878,948	Conf. No. 6459			
Filing Date	June 11, 2001				
First Named Inventor	Kenneth H. Abbott				
Group Art Unit	2173				
Examiner Name	Unknown T,	1tailu			
Attorney Docket No.	294438022US2				

Direct	1	01	<u> </u>	Time into Detrict Tree	23 1 10 0 0 2 2 0 0 2		
	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS						
EXAMINER INITIALS []	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published.					Т	
TH	Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997.						
1.	Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999						
	Smailagic et al., "Matching interface design with user task: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25						
	Smailagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						
	Starner et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998						
	Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," <i>IEEE</i> , Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.						
	Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999						

RECEIVED

DEC 0 2 2002

Technology Center 2100

EXAMINER Todore Harb

DATE CONSIDERED

2-24-04

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

IP E VO	
OCT 0 6 2003	NFORMATION DISCLOSURE STATEMENT BY APPLICANT
The state of	Form PTO-1449 (Modified) Use several sheets if necessary)
THADENT (

COMPLETE IF KNOWN					
Application Number	8,948				
Confirmation Number	6459	RECE			
Filing Date	Jure 11, 2001	CEIVE	r		
First Named Inventor	Kenneth H. Abbott	OCT	_		
Group Art Unit	2173	7 0 8 2003			
Examiner Name	John W. Cabeca	#Echnology o			
Attorney Docket No.	294438022US2	Center 21	^		
		4b. /	IJί.		

				U.S. PATENT D	OCUMENTS			
Examiner Initials*	Cite No.		ent or Application Kind Cod (if known	• · · · · · · · · · · · · · · · · · · ·	Name of Patentee or Inventor of Cited Document		Pages, Columns, Lines, Where Relevant Passages Relevant Figures Appear	es or
T4		6,405,1	59 B2	Bushey et al.		6/11/02		-
TH		6,421,7	00 B1	Holmes et al.		7/16/02		
TH	<u> </u>	6,446,0	57 B1	Vaughan		9/3/02	`	
TH		6,446,1		Gupta				
	-			FOREIGN PATENT	DOCUMENTS			
Examiner Initials*	Cite No.		atent or Application Kind (//BER (if kn	Code Name of Pate	entee or Applicant I Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т
					<u>.</u>			1
<u> </u>	<u>. </u>		OTHER PRIOF	ART-NON PATEN	T LITERATURE D	OCUMENTS		
Examiner Initials*	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.						
T4		Schmidt, A. et al., "There is more to Context than Location: Environment Sensing Technologies for Adaptive Mobile User Interfaces," 11/1998						
TH		Dechamboux, P. et al., "Using a Distributed Shared Memory for Implementing Efficient Information Mediators," 1996						

EXAMINER		DATE CONSIDERED ,	
7.	desse Harlin	2-24-04	
*EXAMINER:	Initial if reference considered, whether or not criteria is in conform	nance with MPEP 609. Draw line through citation if not in conformance and not	
	considered. Include copy of this form with next communication to application(s).		